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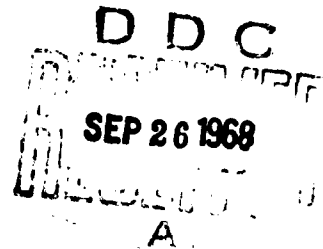
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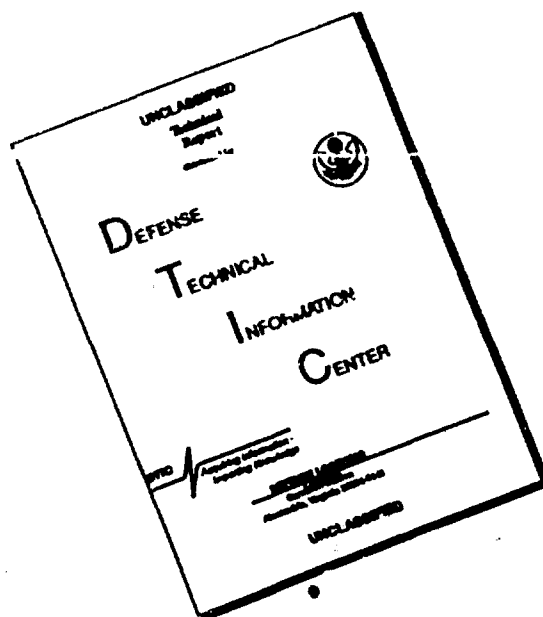


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HELMINTOSPORIOSIS OF BARLEY

Page 143, V.25, 1964
Trans. All-Union Inst. of Plant Protection

R. I. Shchekochikhina

Recently (1962-1964) a general decrease has been observed in the degree of barley infection with barley stripe (Drechslera graminea Ito, synonymous with Helminthosporium gramineum Rabh.) But, as in the past, in 1964 the disease was most widespread in the northern districts of the growing range of this crop. Thus, a mass infection of barley was observed in Arkhangel'skaya Oblast and the Bashkirskaya ASSR. The disease was found throughout the Komi ASSR, where in some places, for example on the farms of Priluzskiy Rayon, about 50% of the plants were infected to an extent of 15-20%.

In the Brestskaya, Moscow and Vladimirskaya oblasts the disease occurred focally, with infection of up to 50% of the leaf-surface of the plants.

In most oblasts of the Ukraine (see Table), in Kalinin-gradskaya, Kaluzhskaya, Lipetskaya, Orlovskaya, Kuybyshevskaya and Sverdlovskaya oblasts, and also in Kamchatka and the Primorskiy Kray, general distribution of the disease and degree of infection of the barley were essentially slight.

Isolated instances of mild infection of most of the plants (from 60 to 100%) were observed in Zhitomirskaya, Cherkasskaya and Kirovogradskaya oblasts, and a more pronounced manifestation of the disease in Krymskaya, L'vovskaya and Dnepropetrovskaya oblasts. Similar instances of infection were observed in Omskaya Oblast and the Turkmen SSR.

Since the infection is transmitted mostly with the seeds, and the diseased seedlings constitute its primary source, particular attention should be given to the quality of seed-material disinfection. This is especially important in the

northern districts of the barley-growing range, and in those having an adequate supply of moisture during the growing season, where weather conditions promote a rapid spreading of secondary infection. The use of healthy seeds provides an almost complete insurance against infection of the crop with this disease regardless of the weather conditions.

Date on Infection of Barley with Barley Stripe in 1964

Область (1)	Процент пораженных растений (2)	Область (1)	Процент пораженных растений (2)
Ровенская (3)	7-13	Черкасская (7)	6-16
Житомирская (4)	10-15	Полтавская (8)	13
Киевская (5)	5-11	Днепропетровская (9)	3-26
Черниговская (6)	11-28	Тернопольская (10)	1-2

Legend: 1) Oblast; 2) Percentage of infected plants;
3) Rovenskaya; 4) Zhitomirskaya; 5) Kiyevskaya; 6) Cherni-
govskaya; 7) Cherkasskaya; 8) Poltavskaya; 9) Dnepropetrov-
skaya; 10) Ternopol'skaya